Prof. Franco Maloberti, born in Parma (Italy) in 1945, received the Laurea Degree in Physics (Summa cum Laude) from the University of Parma in 1968. He joined the University of L'Aquila in 1968 and the University of Pavia in 1969 as Assistant Professor.

He was the Engineering Faculty Coordinator of the University of Mogadishu, Somalia, from 1975 to 1979. Besides being a professor and responsible for the relationship between the Italian Foreign Ministry and local authorities, his role in Somalia was coordinating humanitarian activities and technical consultancies to local industries.

He returned to the University of Pavia as Associate Professor in 1979. He was Professor of Microelectronics and Head of the Micro Integrated Systems Group, University of Pavia, Italy, since 1986. He was a Visiting Professor at ETH-PEL, Zurich, in 1993, working on electronic sensor interfaces. He received the doctor *honoris causa* in Electronics from the Instituto Nacional de Astrofisica, Optica y Electronica (Inaoe), Puebla, Mexico, in 1996.

Thanks to a large donation from Texas Instruments, Texas A&M University created a chair position to honor Jack Kilby, the inventor of integrated circuits (Nobel recipient, December 2000). At the beginning of 2000, Prof. Maloberti was selected as the first holder of the TI/Jack Kilby Analog Engineering Chair Professor at Texas A&M University. He was also the Microelectronics Distinguished Chair Professor at the University of Texas at Dallas. In 2004, he was a Visiting Professor at EPFL-LEG, Lausanne, working on integrated circuits for biological applications. Presently, he is an Emeritus Professor at the University of Pavia, Italy, and an Honorary Professor at the University of Macau, Macau SAR, China.

His professional expertise is designing, analyzing, and characterizing integrated circuits for analog-digital applications, mainly in switched capacitor circuits, data converters, interfaces for telecommunication and sensor systems, and CAD for analog and mixed A-D design. Under his supervision, a generation of students designed several ten integrated circuits. The obtained qualifications allowed them to join primary integrated circuits companies like ST Microelectronics, Infineon, AMS, Analog Devices, ASR Microelectronics, Marvell, Huawei, Inventvm Semiconductor, Photeon Technologies, and Synopsis. Six of the former students are University Professors.

At Pavia University, Prof. Maloberti has supervised more than 260 master's theses and 28 Ph. D's in the circuit, system, and microelectronics area. Moreover, he co-supervised four Ph.D. students at EPFL, Lausanne, one Ph.D. at ITU Istanbul, and one Ph.D. at the University of Macau. As a professor at Texas A&M University, he supervised 11 Ph.D. and five master's students. As a professor at UTD Dallas, he supervised eight Ph.D. and seven master's students. Prof. Maloberti supported the research activity of foreign Ph.D. students visiting the IMS Lab. Namely, he hosted three Chinese students from China, two from Istanbul Technical University (ITU), Turkey, and one from the Federal University of Rio Grande do Sul, Brazil. His educational activity includes short courses at the University of L'Aquila (Italy), University of Seville (Spain), University of Tampere (Finland), ITU (Turkey), Isik University (Turkey), Shanghai Jiao Tong University, and University of Science and Technology, Chengdu (China), AMS Graz (Austria), ST Microelectronics Catania and Milan (Italy), Freescale Toulouse (France).

Prof. Maloberti signed research agreements with several industries: Italtel, Magneti Marelli, ST Microelectronics, AMS, Anacad, Amplifon, Rockwell, Atmel, Laben, National Semiconductors, Texas Instruments, Analog Devices, and Microtera. The research cooperations were defined in specific agreements and aimed at the study and experimental implementation of advanced circuits and systems with innovative contents. Other than specific research topics, the general objectives of the cooperation concerned with consolidating know-

how and equipment in academic and industrial environments, training students on industrial interests, and continuing education.

The funding of the research activity of Prof. Maloberti exceeded nine million euros, granted by Italian funding bodies (CNR, Ministry of University), the European Union, through ten Esprit projects, the NSF (USA), and sponsoring semiconductor companies.

Prof. Maloberti has written over 620 published papers, ten books and holds 41 patents. The textbook "Data Converters" was translated into Polish and Chinese. He has been responsible at technical and management levels for many research programs. He has served the European Commission as ESPRIT Projects' Evaluator, Reviewer, and European Union expert in many European Initiatives. He served the Academy of Finland on the assessment of electronic research in Academic institutions and the research programs' evaluations. He served the National Research Council of Portugal on a Board for the research activity assessment of Portuguese Universities. He was a Member of the Advisory Board of INESC-Lisbon, Portugal. He served the Hong Kong University Grants Committee (UGC) as an RAE 2020 E.E. Engineering Panel member. He was the Chairman of the Academic Committee of the Microelectronics Key Lab. Macau, China (2011-2023).

He is the IEEE Division I Director. He was the President of the IEEE CAS Society (2016-2017), Vice President Region 8 of IEEE CAS (1995-1997), Associate Editor of IEEE-TCAS-II, President of the IEEE Sensor Council (2002-2003), IEEE CAS BoG member (2003-2005), Vice President Publications IEEE CAS (2007-2008). He was Distinguished Lecturer IEEE SSC Society (2009-2010) and Distinguished Lecturer IEEE CAS Society (2006-2007; 2012-2013).

In 1992, he received the XII Pedriali Prize for his technical and scientific contributions to national industrial production. He received the 1999 IEEE CAS Society Meritorious Service Award, the 2000 CAS Society Golden Jubilee Medal, and the IEEE Millenium Medal. He received the 1996 IEE Fleming Premium, the ESSCIRC 2007 Best Paper Award, and the IEEJ Workshop 2007 and 2010 Best Paper Award. He received the IEEE CAS Society 2013 Mac Van Valkenburg Award. He is an Editorial Board of Analog Integrated Circuits and Signal Processing member. He is a Life Fellow of IEEE.